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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/213,984	12/17/1998	WILHELMUS J.M. DIEPSTRATEN	DIEPSTRATEN 19-5-5	6137
47396 HITT GAINES:	7590 04/10/200 PC	EXAMINER		
LSI Corporation	1	DONAGHUE, LARRY D		
PO BOX 83257 RICHARDSON	=		ART UNIT	PAPER NUMBER
			2154	
			NOTIFICATION DATE	DELIVERY MODE
			04/10/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/213,984	DIEPSTRATEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Larry D. Donaghue	2154	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
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Status			
Responsive to communication(s) filed on 6/25 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4)  Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-22 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	awn from consideration. or election requirement.		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the Examin The oath or declaration is objected to by the Examin The oath or declaration.	cepted or b) objected to by the defended or b) for objected to by the defended or by the drawing(s) is objection is required if the drawing(s) is objection is	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat*</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D: 5)  Notice of Informal F 6)  Other:	ate	

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- 1. Claims 1-22 are presented for examination.
- 2. Claims 1-4 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. (5,528,513) in view of Sharangpani et al. (6,272,520).
- 1. Vaitzblit et al. taught the invention (claims 1, 4 and 8, 11) as claimed including a an event recorder and event acknowledger (col. 4, lines 48-60); foreground controller (figure 1, 158) for activating the task according to priority (see abstract) and in response to events (col. 4, lines 43-60), and a background controller operating in a cyclical manner (col. 5, lines 15-17 and Figure 1, 100). Vaitzblit et al. does not expressly state the code is of the currently active context, Sharangpani et al. taught the determination as to whether to change context is done before the new context is started (col. 4, lines 39-col. 5, line 5, col. 7, lines 46-67) .IT would have been obvious to combine these teaching. In view of the express teaching of and Sharangpani et al. (see col. 2, lines 58-67).
- As to claims 2 and 9, Vaitzblit et al. taught masking (col. 4, lines 43-60).
- 3. As to claims 3 and 10, Vaitzblit et al. taught storing the events therefore the reference taught at least a Flip-Flop (col. 3, line 55- col. 4, line 67).
- 4. Claims 5, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. (5,528,513) and Sharangpani et al. (6,272,520) as applied to claims 1, 8, and above, and further in view of Dummermuth et al. (6,009,454).

It would have been obvious to one of ordinary to replace the time slice scheduling of Vaitzblit et al. with the instruction count as expressly suggested by Dummermuth et al. (Col. 3, lines 22-23).

5. Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. (5,528,513) as applied to claims 1 and 8 above, and further in view of Seibert et al. (5,239,652).

Vaitzblit et al. failed to disclose placing the processor in an idle state. Seibert et al. taught place a processor in idle state in response to inactivity. It would have been obvious to combine the teachings to allow for the reduction of power consumption.

6. Claims 7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. and Sharangpani et al. as applied to a claims 1 and 8 above, and further in view of McLain et al. (6,256,659).

As to claims, It would have been obvious to one of ordinary to include the teaching of vectoring as suggested by McLain, Jr. et al. (Col. 12, lines 63-67), to gain the benefit of allowing the process to resume at a later time when it was interrupted.

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7. Claims 15-18 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. as applied to claims 1- 4 and 8-11 above, and further in view of Motomura (5,713,038) and Sharangpani et al. (6,272,520).

Vaitzblit et al. taught the substantially invention (claims 15 and 18) as claimed including a an event recorder and event acknowledger (col. 4, lines 48-60); a foreground controller (figure 1, 158) for activating the task according to priority (see abstract) and in response to events (col. 4, lines 43-60), and a background controller operating in a cyclical manner (col. 5, lines 15-17 and Figure 1, 100).

Vaitzblit et al. did not teach a plurality of register sets and the interconnection of the plurality of register sets with the execution core. Motomura taught the use of a plurality of register sets and the interconnection of the plurality of register sets with the execution core. It would have been obvious to one of ordinary skill in the data processing art to modify the teaching of Vaitzblit et al. with that of Motomura to realize high speed and more flexible context switching, in an conventional processor.

Vaitzblit et al. nor Motomura et al. state the code is of the currently active context, Sharangpani et al. taught the determination as to whether to change context is done before the new context is started (col. 4, lines 39-col. 5, line 5, col. 7, lines 46-67)

- 8. As to claim 22, It would have obvious to one of ordinary skill in the data processing art to included the teaching of Vaitzblit et al. and Motomura, to gain the benefit of the hierarchical scheduling technique and to realize high speed and more flexible context switching, in an general-purpose computer.
- 9. As to claims 16, Vaitzblit et al. taught masking (col. 4, lines 43-60).
- 10. As to claim 17, Vaitzblit et al. taught storing the events therefore the reference taught at least a Flip-Flop (col. 3, line 55- col. 4, line 67).
- 11. Claims 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. (5,528,513) in view of Motomura (5,713,038) and Sharangpani et al. (6,272,520) as applied to claim 15 above, and further in view of Dummermuth et al. (6,009,454).

It would have been obvious to one of ordinary to replace the time slice scheduling of Vaitzblit et al. with the instruction count as expressly suggested by Dummermuth et al. (Col. 3, lines 22-23).

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12. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al. (5,528,513)

, Dummermuth et al. (6,009,454) ,Motomura (5,713,038) and Sharangpani et al. (6,272,520) as applied to

claim 15 above, and further in view of Seibert et al. (5,239,652).

The combined teachings failed to disclose placing the processor in an idle state. Seibert et al.

taught place a processor in idle state in response to inactivity. It would have been obvious to combine the

teachings to allow for the reduction of power consumption.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitzblit et al., Motomura 13.

and Sharangpani et al. (6,272,520) as applied to a claim 15 above, and further in view of McLain et al.

(6,256,659).

As to claim 21, It would have been obvious to one of ordinary to include the teaching of vectoring 14.

as suggested by McLain, Jr. et al. (Col. 12, lines 63-67), to gain the benefit of allowing the process to

resume at a later time where it was interrupted.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Larry D. Donaghue whose telephone number is 571-272-3962. The examiner can normally be

reached on M-F 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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/Larry D Donaghue/

Primary Examiner, Art Unit 2154